Project Introduction

An AutoCategorizing Knowledge Management Engine ("AKM") will automate key capabilities for both human-human and human-agent collaboration tools in aerospace information systems: * Automatic organization of shared and new information, by a standards-based interface to other knowledge tools, based on an effective auto-categorization engine; * Immediate incorporation of new knowledge into auto-updated taxonomies, and extension for new topics; * Automatically updated knowledge organizations for groups, individuals, and specialized activities; * Knowledge discovery of new and emerging themes in data and discussions. The result is that AKM will: * Improve usability and collaboration potential for shared sites of working, learning, and discussion; * Help to build communities of practice for growing technical efforts such as the NASA Taxonomy; * Speed and improve sharing of knowledge within NASA and with its larger community; * Help to evolve the shared, developing, interoperating NASA ontologies. AKM will be prototyped in Phase I as an extension of three existing products (Taxonomize's Auto-Categorizer, Resource Aid, and Stochastic Analyzer) and applied to selected NASA information programs. In Phase II AKM will be productized for extended NASA, government, and commercial application.

Primary U.S. Work Locations and Key Partners

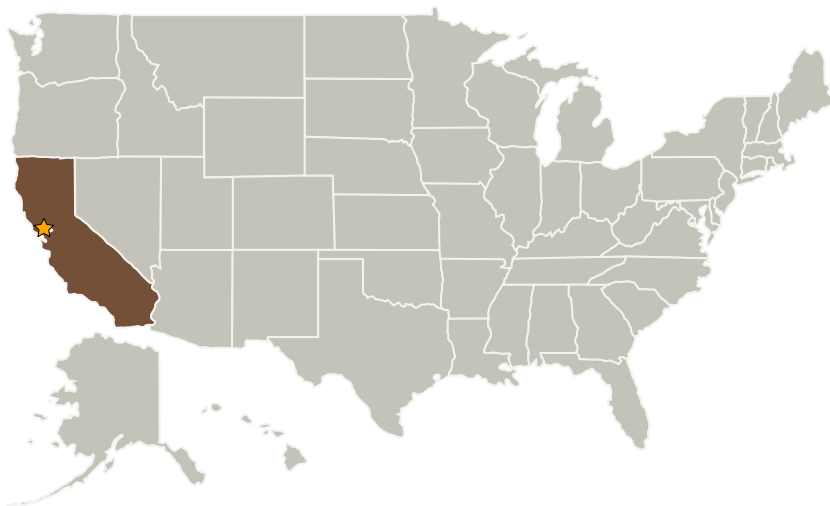AutoCategorization for Customized Knowledge Portals, Phase I

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Ames Research Center (ARC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Organizations Performing Work	Role	Type	Location
⭐Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California
Taxonomize	Supporting Organization	Industry	Cupertino, California

Primary U.S. Work Locations
California

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Robert London

Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
  └ TX11.4 Information Processing
    └ TX11.4.4 Collaborative Science and Engineering

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Printed on 12/08/2022
08:43 PM UTC

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